RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/705,401
Source: IFW0
Date Processed by STIC: 10/18/04

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IFWO

RAW SEQUENCE LISTING DATE: 10/18/2004
PATENT APPLICATION: **US/10/705,401** TIME: 14:36:20

Input Set : **A:\PTO.FG.txt**
Output Set: **N:\CRF4\10182004\J705401.raw**

3 <110> APPLICANT: Clausen, Henrik
4 Bennett, Eric P.
6 <120> TITLE OF INVENTION: METHODS TO IDENTIFY AGENTS MODULATING FUNCTIONS OF POLYPEPTIDE GALNAC-
7 TRANSFERASES, PHARMACEUTICAL COMPOSITIONS COMPRISING SUCH AGENTS AND THE
8 USE OF SUCH AGENTS FOR PREPARING MEDICAMENTS
W--> 9 <130> FILE REFERENCE: 04305/100H154-US2
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/705,401
C--> 11 <141> CURRENT FILING DATE: 2003-11-10
11 <150> PRIOR APPLICATION NUMBER: US 60/425,204
12 <151> PRIOR FILING DATE: 2002-11-08
14 <150> PRIOR APPLICATION NUMBER: PCT/DK03/00763
15 <151> PRIOR FILING DATE: 2003-11-07
17 <160> NUMBER OF SEQ ID NOS: 127
19 <170> SOFTWARE: PatentIn version 3.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 20
23 <212> TYPE: PRT
24 <213> ORGANISM: Artificial Sequence
26 <220> FEATURE:
27 <223> OTHER INFORMATION: synthetic peptide
29 <400> SEQUENCE: 1
31 His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr
32 1 5 10 15
35 Ala Pro Pro Ala
36 20
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 24
41 <212> TYPE: PRT
42 <213> ORGANISM: Artificial Sequence
44 <220> FEATURE:
45 <223> OTHER INFORMATION: synthetic peptide
47 <400> SEQUENCE: 2
49 Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro
50 1 5 10 15
53 Ala Pro Gly Ser Thr Ala Pro Pro
54 20
57 <210> SEQ ID NO: 3
58 <211> LENGTH: 167
59 <212> TYPE: PRT
60 <213> ORGANISM: Homo sapiens
62 <400> SEQUENCE: 3
64 Tyr Gly Asp Ile Ser Ser Arg Val Gly Leu Arg His Lys Leu Gln Cys
65 1 5 10 15

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68 Lys Pro Phe Ser Trp Tyr Leu Glu Asn Ile Tyr Pro Asp Ser Gln Ile
69             20                  25                  30
72 Pro Arg His Tyr Phe Ser Leu Gly Glu Ile Arg Asn Val Glu Thr Asn
73         35                  40                  45
76 Gln Cys Leu Asp Asn Met Ala Arg Lys Glu Asn Glu Lys Val Gly Ile
77     50                  55                  60
80 Phe Asn Cys His Gly Met Gly Gly Asn Gln Val Phe Ser Tyr Thr Ala
81 65                  70                  75                  80
84 Asn Lys Glu Ile Arg Thr Asp Asp Leu Cys Leu Asp Val Ser Lys Leu
85                 85                  90                  95
88 Asn Gly Pro Val Thr Met Leu Lys Cys His His Leu Lys Gly Asn Gln
89             100                 105                 110
92 Leu Trp Glu Tyr Asp Pro Val Lys Leu Thr Leu Gln His Val Asn Ser
93         115                 120                 125
96 Asn Gln Cys Leu Asp Lys Ala Thr Glu Glu Asp Ser Gln Val Pro Ser
97     130                 135                 140
100 Ile Arg Asp Cys Asn Gly Ser Arg Ser Gln Gln Trp Leu Leu Arg Asn
101 145                 150                 155                 160
104 Val Thr Leu Pro Glu Ile Phe
105                 165
108 <210> SEQ ID NO: 4
109 <211> LENGTH: 164
110 <212> TYPE: PRT
111 <213> ORGANISM: Homo sapiens
113 <400> SEQUENCE: 4
115 Tyr Gly Asn Ile Gln Ser Arg Leu Glu Leu Arg Lys Lys Leu Ser Cys
116 1               5                   10                  15
119 Lys Pro Phe Lys Trp Tyr Leu Glu Asn Val Tyr Pro Glu Leu Arg Val
120             20                  25                  30
123 Pro Asp His Gln Asp Ile Ala Phe Gly Ala Leu Gln Gln Gly Thr Asn
124         35                  40                  45
127 Cys Leu Asp Thr Leu Gly His Phe Ala Asp Gly Val Val Gly Val Tyr
128     50                  55                  60
131 Glu Cys His Asn Ala Gly Gly Asn Gln Glu Trp Ala Leu Thr Lys Glu
132 65                  70                  75                  80
135 Lys Ser Val Lys His Met Asp Leu Cys Leu Thr Val Val Asp Arg Ala
136                 85                  90                  95
139 Pro Gly Ser Leu Ile Lys Leu Gln Gly Cys Arg Glu Asn Asp Ser Arg
140             100                 105                 110
143 Gln Lys Trp Glu Gln Ile Glu Gly Asn Ser Lys Leu Arg His Val Gly
144         115                 120                 125
147 Ser Asn Leu Cys Leu Asp Ser Arg Thr Ala Lys Ser Gly Gly Leu Ser
148     130                 135                 140
151 Val Glu Val Cys Gly Pro Ala Leu Ser Gln Gln Trp Lys Phe Thr Leu
152 145                 150                 155                 160
155 Asn Leu Gln Gln
159 <210> SEQ ID NO: 5
160 <211> LENGTH: 167
161 <212> TYPE: PRT
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PATENT APPLICATION: **US/10/705,401** TIME: 14:36:20

Input Set : **A:\PTO.FG.txt**
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162 <213> ORGANISM: Homo sapiens
164 <400> SEQUENCE: 5
166 Phe Gly Asp Leu Ser Lys Arg Phe Glu Ile Lys His Arg Leu Arg Cys
167 1               5                  10                  15
170 Lys Asn Phe Thr Trp Tyr Leu Asn Asn Ile Tyr Pro Glu Val Tyr Val
171             20                  25                  30
174 Pro Asp Leu Asn Pro Val Ile Ser Gly Tyr Ile Lys Ser Val Gly Gln
175         35                  40                  45
178 Pro Leu Cys Leu Asp Val Gly Glu Asn Asn Gln Gly Gly Lys Pro Leu
179     50                  55                  60
182 Ile Met Tyr Thr Cys His Gly Leu Gly Gly Asn Gln Tyr Phe Glu Tyr
183 65                  70                  75                  80
186 Ser Ala Gln His Glu Ile Arg His Asn Ile Gln Lys Glu Leu Cys Leu
187                 85                  90                  95
190 His Ala Ala Gln Gly Leu Val Gln Leu Lys Ala Cys Thr Tyr Lys Gly
191             100                 105                 110
194 His Lys Thr Val Val Thr Gly Glu Gln Ile Trp Glu Ile Gln Lys Asp
195         115                 120                 125
198 Gln Leu Leu Tyr Asn Pro Phe Leu Lys Met Cys Leu Ser Ala Asn Gly
199     130                 135                 140
202 Glu His Pro Ser Leu Val Ser Cys Asn Pro Ser Asp Pro Leu Gln Lys
203 145                 150                 155                 160
206 Trp Ile Leu Ser Gln Asn Asp
207                 165
210 <210> SEQ ID NO: 6
211 <211> LENGTH: 174
212 <212> TYPE: PRT
213 <213> ORGANISM: Homo sapiens
215 <400> SEQUENCE: 6
217 Ala Tyr Gly Asp Ile Ser Glu Arg Lys Leu Leu Arg Glu Arg Leu Arg
218 1               5                  10                  15
221 Cys Lys Ser Phe Asp Trp Tyr Leu Lys Asn Val Phe Pro Asn Leu His
222             20                  25                  30
225 Val Pro Glu Asp Arg Pro Gly Trp His Gly Ala Ile Arg Ser Arg Gly
226         35                  40                  45
229 Ile Ser Ser Glu Cys Leu Asp Tyr Asn Ser Pro Asp Asn Asn Pro Thr
230     50                  55                  60
233 Gly Ala Asn Leu Ser Leu Phe Gly Cys His Gly Gln Gly Gly Asn Gln
234 65                  70                  75                  80
237 Phe Phe Glu Tyr Thr Ser Asn Lys Glu Ile Arg Phe Asn Ser Val Thr
238                 85                  90                  95
241 Glu Leu Cys Ala Glu Val Pro Glu Gln Lys Asn Tyr Val Gly Met Gln
242             100                 105                 110
245 Asn Cys Pro Lys Asp Gly Phe Pro Val Pro Ala Asn Ile Ile Trp His
246         115                 120                 125
249 Phe Lys Glu Asp Gly Thr Ile Phe His Pro His Ser Gly Leu Cys Leu
250     130                 135                 140
253 Ser Ala Tyr Arg Thr Pro Glu Gly Arg Pro Asp Val Gln Met Arg Thr
254 145                 150                 155                 160
```

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258                 165                 170
261 <210> SEQ ID NO: 7
262 <211> LENGTH: 168
263 <212> TYPE: PRT
264 <213> ORGANISM: Homo sapiens
266 <400> SEQUENCE: 7
268 Asp Val Gly Asn Leu Thr Gln Gln Arg Glu Leu Arg Lys Lys Leu Lys
269 1               5                   10                  15
272 Cys Lys Ser Phe Lys Trp Tyr Leu Glu Asn Val Phe Pro Asp Leu Arg
273             20                  25                  30
276 Ala Pro Ile Val Arg Ala Ser Gly Val Leu Ile Asn Val Ala Leu Gly
277         35                  40                  45
280 Lys Cys Ile Ser Ile Glu Asn Thr Thr Val Ile Leu Glu Asp Cys Asp
281     50                  55                  60
284 Gly Ser Lys Glu Leu Gln Gln Phe Asn Tyr Thr Trp Leu Arg Leu Ile
285 65                  70                  75                  80
288 Lys Cys Gly Glu Trp Cys Ile Ala Pro Ile Pro Asp Lys Gly Ala Val
289                 85                  90                  95
292 Arg Leu His Pro Cys Asp Asn Arg Asn Lys Gly Leu Lys Trp Leu His
293             100                 105                 110
296 Lys Ser Thr Ser Val Phe His Pro Glu Leu Val Asn His Ile Val Phe
297         115                 120                 125
300 Glu Asn Asn Gln Gln Leu Leu Cys Leu Glu Gly Asn Phe Ser Gln Lys
301     130                 135                 140
304 Ile Leu Lys Val Ala Ala Cys Asp Pro Val Lys Pro Tyr Gln Lys Trp
305 145                 150                 155                 160
308 Lys Phe Glu Lys Tyr Tyr Glu Ala
309                 165
312 <210> SEQ ID NO: 8
313 <211> LENGTH: 165
314 <212> TYPE: PRT
315 <213> ORGANISM: Homo sapiens
317 <400> SEQUENCE: 8
319 Ser Phe Gly Asp Ile Ser Glu Arg Leu Gln Leu Arg Glu Gln Leu His
320 1               5                   10                  15
323 Cys His Asn Phe Ser Trp Tyr Leu His Asn Val Tyr Pro Glu Met Phe
324             20                  25                  30
327 Val Pro Asp Leu Thr Pro Thr Phe Tyr Gly Ala Ile Lys Asn Leu Gly
328         35                  40                  45
331 Thr Asn Gln Cys Leu Asp Val Gly Glu Asn Asn Arg Gly Gly Lys Pro
332     50                  55                  60
335 Leu Ile Met Tyr Ser Cys His Gly Leu Gly Gly Asn Gln Tyr Phe Glu
336 65                  70                  75                  80
339 Tyr Thr Thr Gln Arg Asp Leu Arg His Asn Ile Ala Lys Gln Leu Cys
340                 85                  90                  95
343 Leu His Val Ser Lys Gly Ala Leu Gly Leu Gly Ser Cys His Phe Thr
344             100                 105                 110
347 Gly Lys Asn Ser Gln Val Pro Lys Asp Glu Glu Trp Glu Leu Ala Gln
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PATENT APPLICATION: **US/10/705,401** TIME: 14:36:20

Input Set : **A:\PTO.FG.txt**
Output Set: **N:\CRF4\10182004\J705401.raw**

```
348         115                 120                 125
351 Asp Gln Leu Ile Arg Asn Ser Gly Ser Gly Thr Cys Leu Thr Ser Gln
352     130                 135                 140
355 Asp Lys Lys Pro Ala Met Ala Pro Cys Asn Pro Ser Asp Pro His Gln
356 145                 150                 155                 160
359 Leu Trp Leu Phe Val
360                 165
363 <210> SEQ ID NO: 9
364 <211> LENGTH: 166
365 <212> TYPE: PRT
366 <213> ORGANISM: Homo sapiens
368 <400> SEQUENCE: 9
370 Tyr Gly Asp Ile Ser Glu Leu Lys Lys Phe Arg Glu Asp His Asn Cys
371 1               5                   10                  15
374 Gln Ser Phe Lys Trp Phe Met Glu Glu Ile Ala Tyr Asp Ile Thr Ser
375             20                  25                  30
378 His Tyr Pro Leu Pro Pro Lys Asn Val Asp Trp Gly Glu Ile Arg Gly
379         35                  40                  45
382 Phe Glu Thr Ala Tyr Cys Ile Asp Ser Met Gly Lys Thr Asn Gly Gly
383     50                  55                  60
386 Phe Val Glu Leu Gly Pro Cys His Arg Met Gly Gly Asn Gln Leu Phe
387 65                  70                  75                  80
390 Arg Ile Asn Glu Ala Asn Gln Leu Met Gln Tyr Asp Gln Cys Leu Thr
391                 85                  90                  95
394 Lys Gly Ala Asp Gly Ser Lys Val Met Ile Thr His Cys Asn Leu Asn
395             100                 105                 110
398 Glu Phe Lys Glu Trp Gln Tyr Phe Lys Asn Leu His Arg Phe Thr His
399         115                 120                 125
402 Ile Pro Ser Gly Lys Cys Leu Asp Arg Ser Glu Val Leu His Gln Val
403     130                 135                 140
406 Phe Ile Ser Asn Cys Asp Ser Ser Lys Thr Thr Gln Lys Trp Glu Met
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410 Asn Asn Ile His Ser Val
411                 165
414 <210> SEQ ID NO: 10
415 <211> LENGTH: 179
416 <212> TYPE: PRT
417 <213> ORGANISM: Homo sapiens
419 <400> SEQUENCE: 10
421 Phe Gly Asp Val Ser Ser Arg Met Ala Leu Arg Glu Lys Leu Lys Cys
422 1               5                   10                  15
425 Lys Thr Phe Asp Trp Tyr Leu Lys Asn Val Tyr Pro Leu Leu Lys Pro
426             20                  25                  30
429 Leu His Thr Ile Val Gly Tyr Gly Arg Met Lys Asn Leu Leu Asp Glu
430         35                  40                  45
433 Asn Val Cys Leu Asp Gln Gly Pro Val Pro Gly Asn Thr Pro Ile Met
434     50                  55                  60
437 Tyr Tyr Cys His Glu Phe Ser Ser Gln Asn Val Tyr Tyr His Leu Thr
438 65                  70                  75                  80
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/18/2004
PATENT APPLICATION: **US/10/705,401** TIME: 14:36:21

Input Set : **A:\PTO.FG.txt**
Output Set: **N:\CRF4\10182004\J705401.raw**

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The rules require that a line not exceed 72 characters in length. This includes spaces.

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VERIFICATION SUMMARY DATE: 10/18/2004
PATENT APPLICATION: **US/10/705,401** TIME: 14:36:21

Input Set : **A:\PTO.FG.txt**
Output Set: **N:\CRF4\10182004\J705401.raw**

L:9 M:283 W: Missing Blank Line separator, <130> field identifier
L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date